



EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that:

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), designated as a "notified body" under the terms of the Merchant Shipping (Marine Equipment) Regulations 2016 (S.I. 2016 No.1025), did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Life-saving appliances requirements of Marine Equipment Directive (MED) 2014/90/EU and Commission Implementing Regulation (EU) 2018/773 indicating design, construction and performance requirements and testing standards for marine equipment, subject to any conditions in the Design Appraisal Document attached hereto.

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|--|---|
| Manufacturer (Applicant) Address | Daniamant Limited Unit 3, The Admiral Park Airport Service Road Hilsea Portsmouth Hampshire PO3 5RQ United Kingdom |
| Reference | Regulation 2018/773 |
| Regulation Item (No & Item designation) | MED/1.2c POSITION-INDICATING LIGHTS FOR LIFE-SAVING APPLIANCES - FOR LIFEJACKETS |
| Product Type | Position-indicating lights for life saving appliances: (c) For Lifejackets |
| Product Description | Position Indicating non flashing lifejacket lights, with manually activated switch- Type "LJ2" |
| Specified Standard | IMO Resolution MSC.81(70), Part 1, as amended |

The attached Design Appraisal Document (schedule) forms part of this certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

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|---------------|--------------|-------------|--------------|
| Date of issue | 25 June 2018 | Expiry date | 24 June 2023 |
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|-----------------|-------------|--------|--|
| Certificate No. | MED 1850130 | Signed |  |
|-----------------|-------------|--------|--|

| | | | |
|-----------|--------|------|---|
| Sheet No. | 1 of 3 | Name | L. Thomas For and on behalf of Lloyd's Register Verification LRV EC Distinguishing No. 0038 |
|-----------|--------|------|---|

Note:

This certificate is issued under the authority of the MCA.

This certificate is not valid for equipment; the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify the notified body named on this certificate of any modification or changes to the equipment in order to obtain a valid Certificate.

Lloyd's Register Verification Limited (Reg. no. 4929226) is a limited company registered in England and Wales. Registered office: 71 Fenchurch Street, London, EC3M 4BS, UK. A subsidiary of Lloyd's Register Group Limited.

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Lloyd's
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| Document number MED 1850130 |
| Issue number 1 |

DESIGN APPRAISAL DOCUMENT

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|----------------------|---|
| Date 26 June 2018 | Quote this reference on all future communications SOUTSO/SFS/TA/LT/MM/WP27423868 |
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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1850130

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

APPROVAL DOCUMENTATION

Technical File – TF008, Revision 3.

Installation and Maintenance Instruction for LJ2 lifejacket light, Document No: 51-7005, issue 10 (C6495)

TEST REPORTS

| <u>Report No.:</u> | <u>Report Title or Test Description:</u> | <u>Date:</u> |
|--------------------|---|--------------|
| 75925967 | Temperature cycling test, life test, luminous intensity test, chromaticity test, rain and water tightness test and vibration test | June 2014 |
| 14-06 | 2 M Drop with life test and switch arrangement test | 24.04.2014 |
| 75917538, Issue 1 | Environmental testing | 05.04.2012 |
| TM-18-99 | MSC 81(70) Type approval testing of LJ2 Lifejackets and its appendices | 22.06.1999 |
| J-5036 | Microbiological test report | 15.10.2013 |
| - | LJ2 Aquacell performance test | 30.11.2001 |
| TM-41-89 | LJ2 Lifejacket light tests | 31.10.1989 |
| M4-1997 | LJ2 Lifejacket light tests | 07.05.1997 |

CONDITIONS OF CERTIFICATION

- Lights powered by batteries shall be marked with a means of determining their age or the date by which they are to be replaced
- Each light is to be marked with the information required by the LSA Code Paragraph 1.2.2.9 and 1.2.3
- For compliance with SOLAS Regulation III/35 and III/36, fully detailed operations and maintenance manuals shall be supplied with each light
- The lifejacket type where the subject design of light is fitted should be tested in accordance with IMO Resolution MSC.81(70), I/10.3.3 to confirm the adequacy of their means of attachment
- Lights which have reached their date of replacement shall be disposed of safely with due regard to their lithium batteries
- The arrangement and installation of the lights on the lifejacket on board are not part of this design appraisal or certificate and are to be to the satisfaction of the Surveyors attending on board
- If the specified standards are amended during the validity of this certificate, this product type is to be re-approved prior to it being supplied to vessels to which the amended standards apply



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8. Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D), a Product-Quality assurance system (Module E) or a Product Verification Process (Module F). **The wheelmark cannot be affixed to the product until a conformity assessment module is in place**
9. Production tests are to be conducted to ensure compliance with SOLAS Chapter III Regulation 5 and recorded by the manufacturer in accordance with either the approved Production Quality Assurance system (Module D), or Product Quality Assurance (Module E), or witnessed by the Notified Body (LRV) as required by the Product Verification (Module F) of the Marine Equipment Directive. This does not preclude any further testing to additional requirements of the Marine Administration of the country where the ship is registered (i.e. the flag state) or those acting on behalf of that Administration
10. Each item, batch or lot of the equipment is to be issued with a "Declaration of Conformity" and have the "Mark of Conformity" affixed after a conformity assessment module is in place
11. Should a change of Place of Production from that stated below be required i.e. where the stages of manufacture/assembly/testing of this product take place, the new Place of Production is to be advised to us prior to the change taking place. This certificate will require to be updated for Approval to be maintained

PLACES OF PRODUCTION

Daniamant Limited
Unit 3, The Admiral Park
Airport Service Road
Hilsea
Portsmouth
Hampshire
PO3 5RQ
United Kingdom

Daniamant A/S
Industrivej 24C
3550 Slangerup
Denmark



Lijo Thomas
Senior Specialist
Statutory Fire & Safety
Southampton Technical Support Office, Marine & Offshore
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038